

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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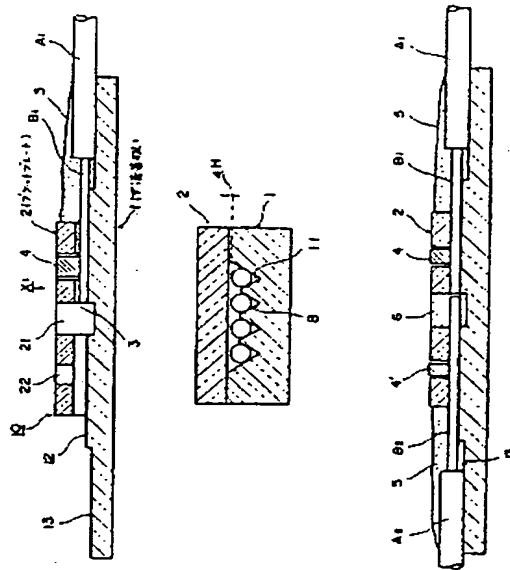
APPLICATION DATE : 03-04-89  
APPLICATION NUMBER : 01085478

APPLICANT : SUMITOMO ELECTRIC IND LTD;

INVENTOR : UEDA TOMOHIKO;

INT.CL. : G02B 6/24

TITLE : OPTICAL FIBER INCORPORATED  
TYPE OPTICAL FIBER COUPLER



ABSTRACT : PURPOSE: To reduce factors of unevenness and to couple multicore optical fibers with low loss by fitting the optical fibers to one side of the coupler while end surfaces are arrayed in advance.

CONSTITUTION: One optical fiber B<sub>1</sub> is inserted into an optical fiber positioning V groove 11 on one side of the coupler main body 10 previously and the optical fiber B<sub>2</sub> of the other coated optical fiber A<sub>2</sub> is inserted into the optical fiber positioning V groove 11 at the other side of the optical fiber coupler which is formed while positioned and fixed. Then the end surface while observed through the observation window 21 of a flat plate 2 is made to abut on the end surface of the optical fiber B<sub>1</sub> which is already positioned and fixed, and the fibers are aligned with each other and fixed with an adhesive 5. At this time, the optical fiber B<sub>2</sub> is pressed downward in the V groove 11 by a pressing member 4' and the end part of the coated optical fiber A<sub>2</sub> is positioned at a fixation part 13 and fixed with the adhesive 5. Consequently, the multicore optical fibers are coupled with low loss.

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